

**19U524S**

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Name: .....

Reg. No: .....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2021**

(CUCBCSS-UG)

**CC15U GL5 B13 – METAMORPHIC GEOLOGY**

(Geology- Core Course)

(2015 to 2018 Admissions - Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

*Draw neat diagrams wherever necessary.*

**PART- A**

Answer *all* questions. Each question carries 1 mark.

1. Glaucofanite is the typical mineral belonging ..... metamorphic facies.
2. The type of metamorphism in which high temperature is dominant.
3. A metamorphic rock showing alternate dark and light-coloured bands.
4. The pyroxene mineral present in Eclogite.
5. An example for rock exhibiting granoblastic texture.
6. The calc silicate rock formed by metasomatism.
7. .... is the process by which migmatite is formed.
8. The metamorphic product of limestone.
9. The pressure exerted on a rock as it is occurring in deeper part within the Earth.
10. Metamorphism localized in a halo around a pluton during contact metamorphism.

**(10 × 1 = 10 Marks)**

**PART- B**

Answer any *ten* questions. Each question carries 2 marks.

11. Retrograde metamorphism.
12. Metasomatism.
13. Phyllite.
14. Geothermometry.
15. Contact metamorphism.
16. Index minerals.
17. Hornfels.
18. Mineral paragenesis.
19. Foliations.
20. Isograd.

21. Schistosity.
22. Limits of metamorphism.

**(10 × 2 = 20 Marks)**

**PART- C**

Answer any *five* questions. Each question carries 6 marks.

23. Cataclastic textures.
24. Paired metamorphic belt.
25. Petrography and origin of slate.
26. Factors affecting metamorphism.
27. UHT metamorphism.
28. Green schist facies metamorphism.
29. Regional metamorphism.
30. Miyashiro facies series.

**(5 × 6 = 30 Marks)**

**PART- D**

Answer any *two* questions. Each question carries 10 marks.

31. Describe the metamorphism of argillaceous rocks.
32. Explain type of metamorphism based on plate tectonic setting.
33. Explain the metamorphic effects on basic igneous rocks.
34. Describe various textures of metamorphic rocks with neat figures.

**(2 × 10 = 20 Marks)**

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